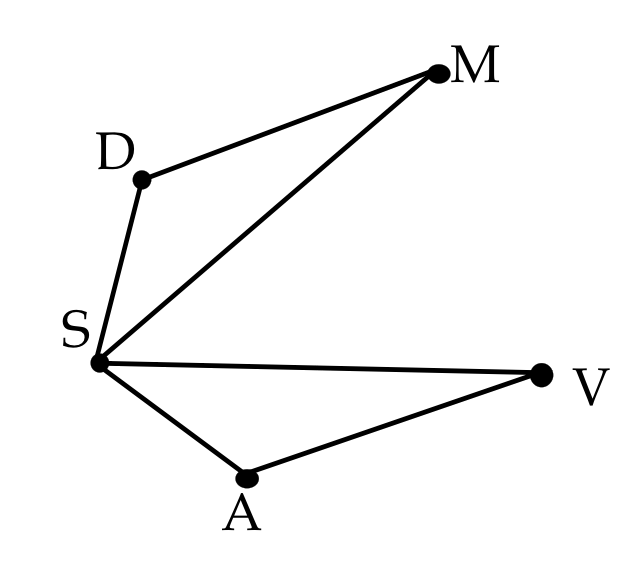
1.Refer to the diagram at the right. Δ VAS is a reflection of Δ MDS.

**Intro to Transformations** Name:

Rodriguez/HGeo



* 1. Draw , the line of reflection, at the right.
  2. The reflection of M over  is \_\_\_\_.
  3. The reflection of  over  is \_\_\_\_.
  4. m∠MDS = m∠ ? \_\_\_\_\_

1. Refer to the diagram below.

An illustration of a non-regular quadrilateral MATH between two parallel lines- lines k and j. 



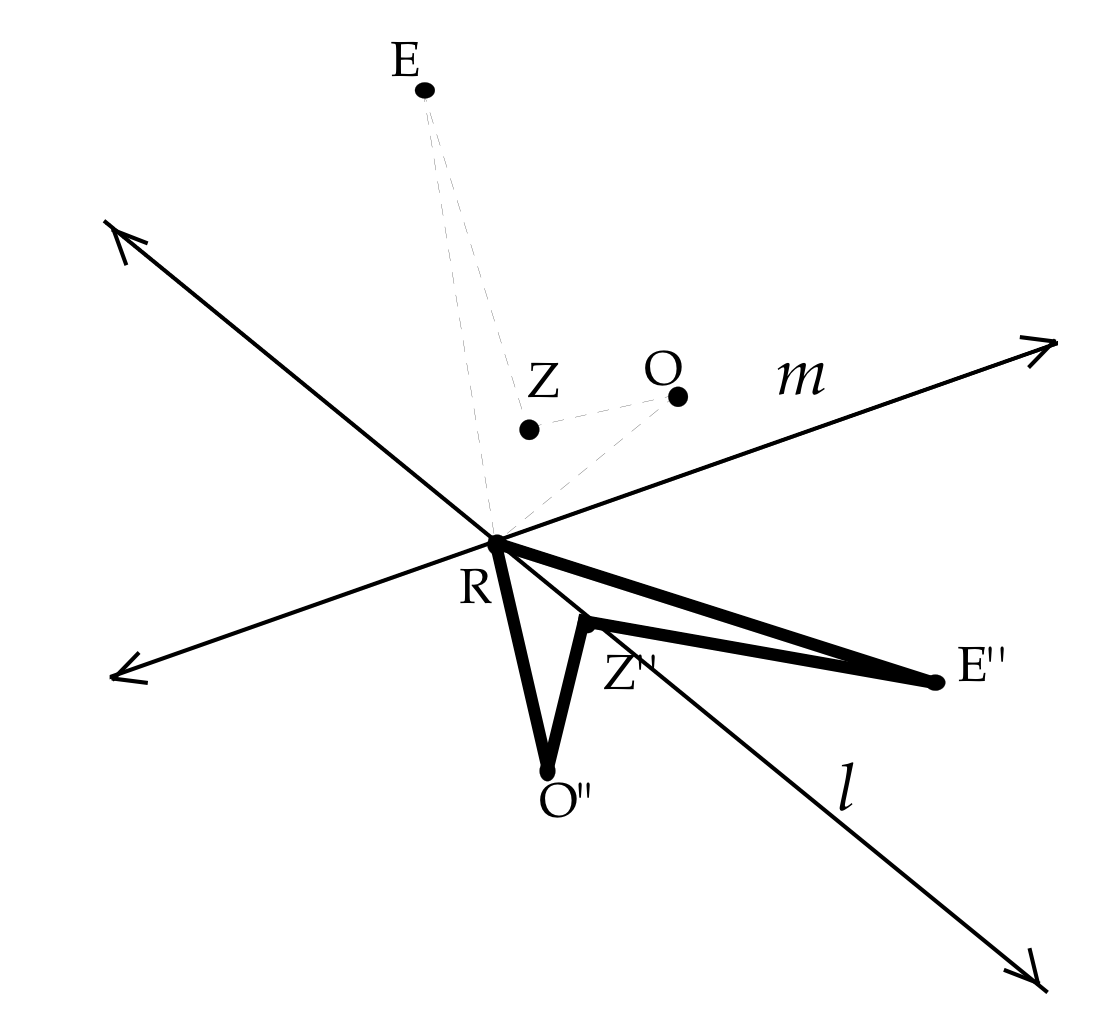
Reflect the shape MATH over line *k* to form M’A’T’H’. Then, reflect M’A’T’H’ over line *j* to form M”A”T”H”. Draw both images below, M’A’T’H’ and M”A”T”H”.

3. Refer to your transformation in problem #2.

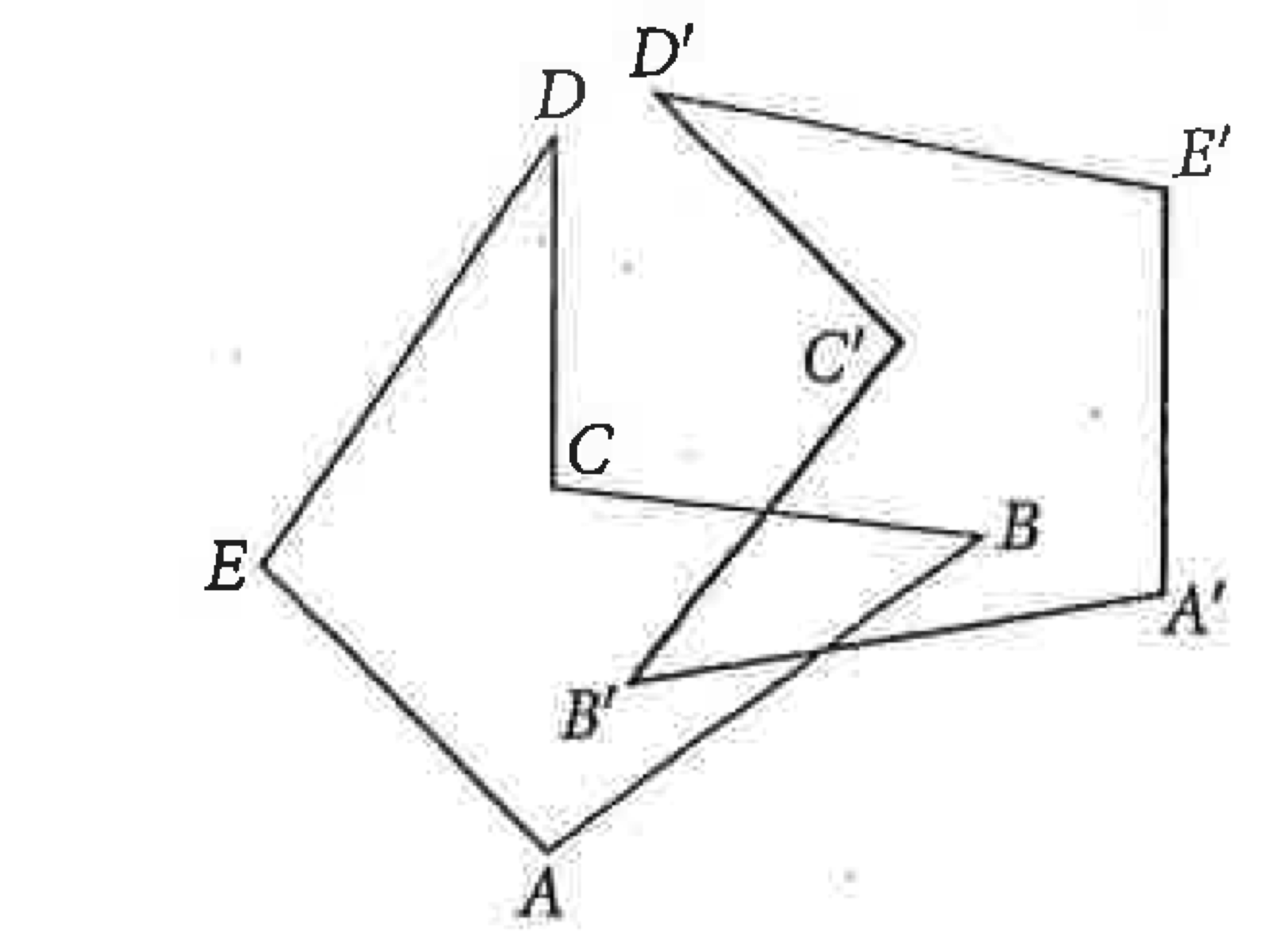
* 1. Name the type of transformation from MATH to M’A’T’H’.
  2. How does the orientation of the pre-image relate to the orientation of the final image?
  3. Let TT” = 4.7 cm, which represents the distance between point T and point T’’.  
     What is the distance between lines *j* and *k*? Explain your reasoning.
  4. Let MH = 1.4 cm. What is the value of M”H”? \_\_\_\_\_\_\_\_\_\_\_\_\_
  5. Let m∠H”M”A” = 28°. What is the measure of ∠HMA? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Refer to the diagram below. m∠ZRZ” = 125°. Note: Z’E’R’O’ is not shown.

Describe the transformation that would map Z”E”R”O” onto ZERO.   
Be as specific as possible.



5. Where is the line of reflection?



6. Translate PENTA according to the direction.

